

Application No. 09/683,200

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) An interactive document processing system, comprising:

a memory for recording image data of a rendered hardcopy document;

a display screen;

a processing device coupled to the display screen; and

an input device for recording signal data; the input device communicating the signal data to the processing device; the signal data representing at least a portion of the hardcopy document;

wherein the processing device in response to receiving the signal data from the input device:

identifying the image data in the signal data using the memory;

identifying annotations in the signal data by comparing the image data with the signal data;

modifying the image data recorded in the memory in accordance with the annotations; and

wherein the memory records an identifier associated with the image data; the identifier being rendered on the hardcopy document; the identifier and the image data being recorded in the memory in response to rendering a hardcopy representation of the image data.

2. (Currently Amended) A system according to claim 1, further wherein modifying the image data further comprises:

modifying the image data in accordance with the [[command data]] annotations;

displaying the modified image data on the display screen; and

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responsive to an acceptance signal from the user of the interactive document processing system, updating the image data of the hardcopy document in the memory with the modified image data.

3. (Original) A system according to claim 2, wherein the input device is a camera.

4. (Original) A system according to claim 1, further comprising a stylus.

5. (Original) A system according to claim 4, wherein the stylus further comprises:
an embedded camera; and

a transmitter that communicates signals from the camera to the processing device.

6. (Original) A system according to claim 4, wherein the stylus includes an accelerometer for recording gestures.

7. (Original) A system according to claim 4, wherein the annotations correspond to command data specifying one of editing, navigating, creating cross-references, copying, distributing, and filing.

8. (Original) A system according to claim 4, wherein the stylus includes a marker for laying down marks on the document; and wherein the camera detects the marks in order to determine annotations.

9. (Original) A system according to claim 4, wherein the stylus includes a pointer for simulating marks on the document; and wherein the camera detects the simulated marks in order to determine instruction marks.

10. (Original) A system according to claim 1, wherein the annotations are defined by recording one of: markings on the hardcopy document; gestures on the hardcopy document; and signals from a command sheet.

11. (Original) A system according to claim 1, wherein the input device comprises an electronic pen with an embedded processing device for performing OCR and transmitting textual content to the processing device coupled to the display screen.

12. (Original) A system according to claim 1, wherein the input device is adapted to record the document and provide position information of the input device relative to

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the hardcopy document.

13. (Original) A system according to claim 1, further comprising at least one further input device for recording user input.

14. (Original) A system according to claim 1, further comprising using at least one alignment point to identify relationships between at least one of: characters, text strings, headings, paragraphs, graphics, shapes of paragraphs, and patterns of word spacing; the at least one alignment point providing alignment between the signal data and the image data.

15. (Canceled).

16. (Currently Amended) A system according to claim 1 [[15]], wherein the [[preprocessing]] processing device recovers the identifier from the signal data and uses the identifier to retrieve the image data from the memory.

17. (Original) A system according to claim 16, wherein the identifier is one of a bar code, a glyph tag, and a paper edge marking.

18. (Currently Amended) A method for operating an interactive document processing system having a processing device coupled to a display screen, an input device, and a memory, comprising:

(a) in response to rendering on a printer a hardcopy document having image data associated with an identifier, recording the image data [[of a rendered hardcopy document]] and the identifier in the memory;

(b) recording signal data with the input device; the signal data representing at least a portion of the hardcopy document;

(c) identifying the image data in the signal data using the memory;

(d) identifying annotations in the signal data by comparing the image data with the signal data;

(e) modifying the image data recorded in the memory in accordance with the annotations.

19. (Original) The method according to claim 18, further comprising:

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repeating (b) - (e) for a rendered hardcopy document of the modified image data recorded in the memory; and

recording changes made to the image data at (e) in the modified image data recorded in the memory.

20. (Currently Amended) A document processing system, comprising:

a memory; and

a processor coupled to the memory for receiving a print request; the processor satisfying the print request by:

(a) transmitting the print request to a printer for rendering a hardcopy document of the print request; the hardcopy document being rendered with an identifier thereon;

(b) in response to rendering the hardcopy document at the printer, storing in the memory the identifier and an electronic representation of the rendered hardcopy document associated with the identifier;

(c) providing the electronic representation of the rendered hardcopy document stored in the memory in response to receiving a request therefor with the identifier; and

(d) receiving recorded signal data from a camera;

(e) using the electronic representation to identify annotations applied to the rendered hardcopy document by comparing the recorded signal data with the electronic representation.

21. (New) The method according to claim 18, further comprising:

recovering the identifier from the signal data; and

using the identifier to retrieve the image data from the memory.